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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,519	06/17/2005	Frederic Berier	0501-1137	2864
466 YOUNG & TH	7590 06/04/2007		EXAMINER	
745 SOUTH 23			LAMPRECHT, JOEL	
2ND FLOOR ARLINGTON, VA 22202			ART UNIT	PAPER NUMBER
,			3737	
			MAIL DATE	DELIVERY MODE
			06/04/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)		
	10/539,519	BERIER ET AL.		
Office Action Summary	Examiner	Art Unit		
	Joel M. Lamprecht	3737		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet v	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status				
<ul> <li>1) Responsive to communication(s) filed on 17 J</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowed closed in accordance with the practice under</li> </ul>	s action is non-final. ance except for formal ma			
Disposition of Claims				
4) ⊠ Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdra  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) r is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or	wn from consideration.			
Application Papers		,		
9) The specification is objected to by the Examina 10) The drawing(s) filed on 17 June 2005 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	a) accepted or b) objection is required if the drawing of the draw	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	its have been received. Its have been received in ority documents have been u (PCT Rule 17.2(a)).	Application No n received in this National Stage		
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application		
Paper No(s)/Mail Date <u>9/19/05</u> .	6) Other:			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-22 rejected under 35 U.S.C. 102(e) as being anticipated by Seibel (US 6,975,898 B2). Seibel discloses a miniature confocal optical head for a confocal imaging system (Col 6 Line 65- Col 7 Line 50) with a point source to produce a beam, optical means for causing the beam to converge into an excitation point perpendicular to the optical axis, means for scanning to describe a field of view in two perpendicular directions (Col 10 Line 20 Col 11 Line 45), rapid line scanning and column scanning, and the inclusion of MEMs capable of moving in translation along a chosen displacement (Col 11 Line 45-Col 12 Line 65), the capability to both scan slowly and in real time (Col 17 Line 15-45), the inclusion of a divergent optical beam and optical means for transforming the beam into a parallel beam and focusing the beam onto the focus point (Col 18 Line 30-65, Col 11 Line 25- Col 13 Line 65), as well as mobile optical means capable of slow column scanning. Seibel also discloses having both optical means as mobile for the purpose of being moved in a direction perpendicular to the optical axis to define a scanning direction (Col 11 Line 25-45, Col 12 Line 45-Col 14

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Line 40), the source is mobile, fixed to a piezoelectric means which can move the excitation beam, the use of a piezoelectric positioner extending along the optical axis of the head (Col 13 Line 35 - Col 16 Line 10), means for modifying the depth of the subsurface observation plane (Col 17 Line 45 - Col 18 Line 10), including MEMs means capable of moving the optical focusing means to move along the optical axis of the beam (Col 12 Line 1-Col 15 Line 40), the terminal part of single-mode optical fiber capable of guiding the excitation signal from an external source (Col 15 Line 35-65), allowing for spatial filtering of the return signal to comply with the confocality of the head (Col 19 Line 60-Col 20 Line 52, Col 15 Line 5-60), the source being of a VCSEL type having a numerical aperture and cavity outlet compatible with a confocal system (Col 12 Line 65- Col 14 Line 15 (How fiber-based system is setup) along with Col 18 Line 50 -Col 19 Line 60), a tight window at the outlet to come into contact with the specimen for index matching (Col 25 Line 15-65, Col 15 Line 45- Col 16 Line 10), that window having refractive power function on the focused beam, and finally processing means for processing the emitted signal and reconstructing a confocal image of an imaged field (Col 24 Line 40- Col 25 Line 15).

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is listed on the enclosed references cited sheet.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joel M. Lamprecht whose telephone number is (571) 272-3250. The examiner can normally be reached on Monday-Friday 7:30AM-4PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian L. Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JML 5/23/07

> ELENI MANTIS MERCADER SUPERVISORY PATENT EXAMINER